

~~The~~ *The* D12-33
KENT-MOORE

Temperature Controlled

**FAST
BATTERY
CHARGER...**

U. S. Patent Office

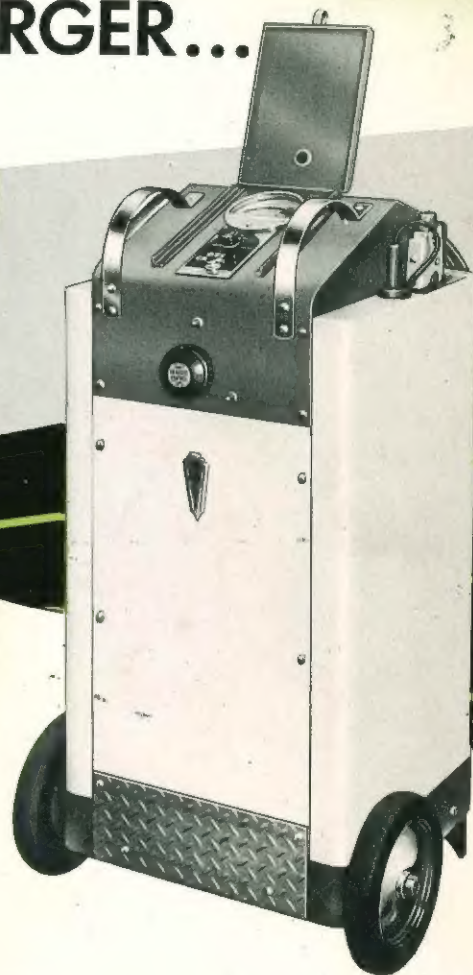
JAN 24 1958

Design Division

RETURN TO
DESIGN DIV.

1. Completely Automatic
2. Maximum Charge in Minimum Time
3. Temperature Controlled
4. Complete Battery Protection
5. Automatic Shut-Off
6. Automatic Adjustment
7. Simplified Charging Control
8. More Charges Per Day
9. Complete Overload Protection
10. No Ruinous Battery Overheating

**SIMPLE TO OPERATE...
NOTHING TO WATCH...
NO CHARTS TO INTERPRET**



APPROVED BY LEADING
BATTERY MANUFACTURERS

KENT-MOORE TOPS THE FIELD

with the

Temperature Controlled

FAST BATTERY CHARGER

Entirely
Automatic

that automatically adjusts itself to the size, initial temperature, initial state of charge and condition of the battery, eliminating all guessing, watching, time clock resetting, thermometers and danger to the battery. Never before have you seen a battery charger like this.

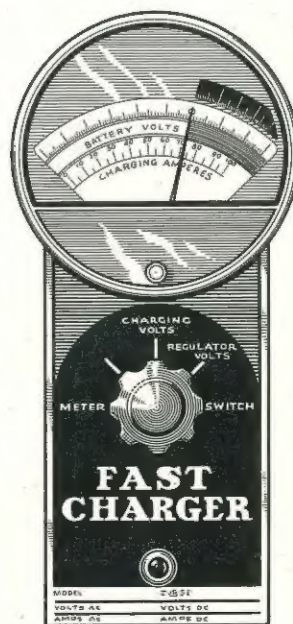
THE KENT-MOORE SYSTEM OF FAST BATTERY CHARGING IS—

Safest—because it is temperature controlled by a thermostat placed within center cell of battery—no ruinous battery overheating—automatically shuts off when battery temperature reaches maximum specified by battery engineers.

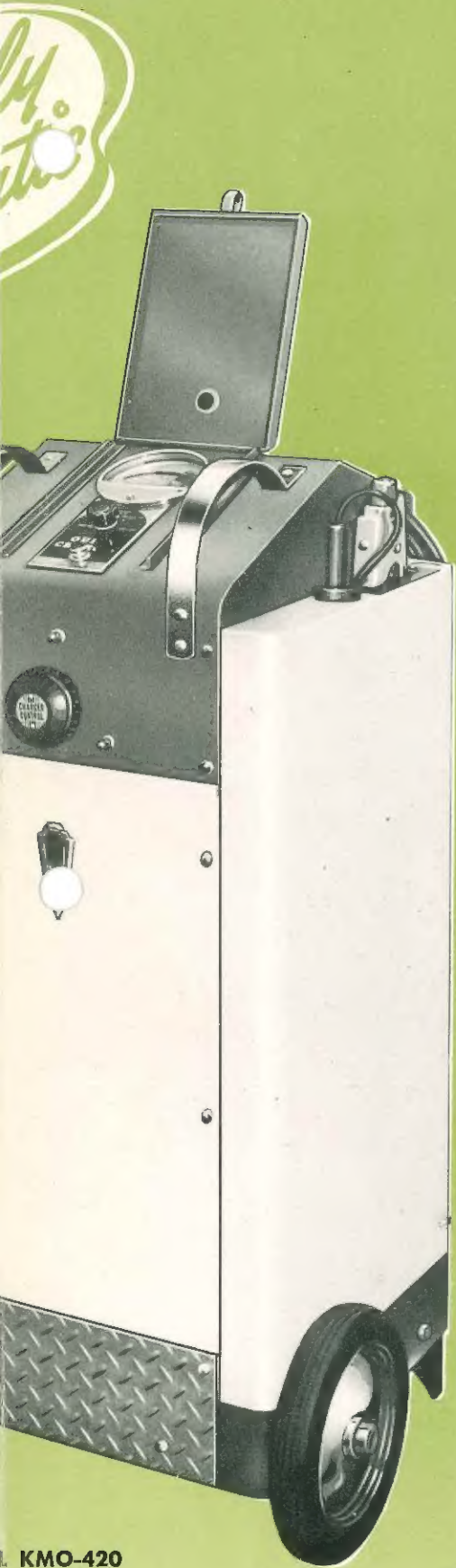
Fastest—because it puts in maximum charge in the least time—safely. It requires no watching. Automatically stops and bell notifies when battery is "up". No guess work, time clock setting calculations to make, no thermometers to be watched.

Protected—overload relay in charging circuit set for 105-110 amperes cuts off A.C. if charging current is set too high or creeps up. Frequently cold or sulphated batteries will quickly wear out rectifiers if charging rate exceeds 110 amps. for any length of time.

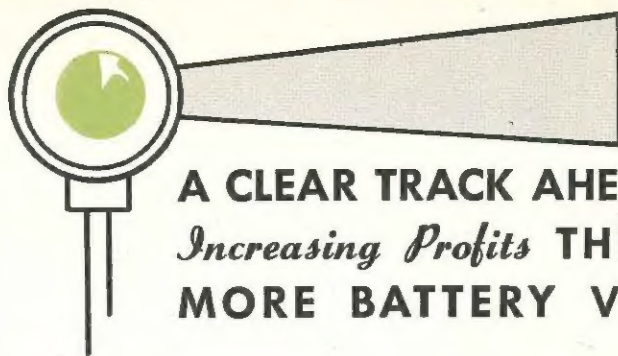
Economical—extra powerful blower fan moves 1400 ft. of air per minute past the rectifier which is twice the minimum amount required. This extra air keeps rectifier at very low operating temperature, which assures long life and minimum aging.



MODE



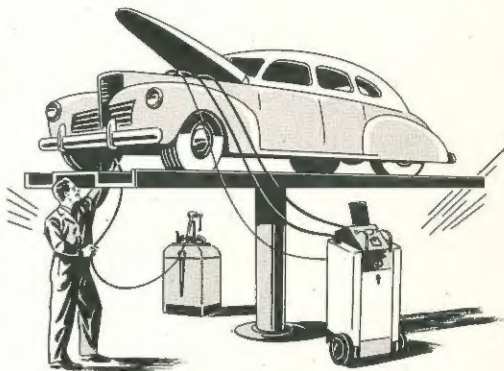
KMO-420



A CLEAR TRACK AHEAD FOR *Increasing Profits* THROUGH MORE BATTERY VOLUME

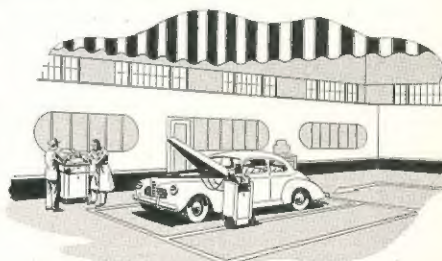
**MAKE THIS ADDITIONAL "FAST" SERVICE AVAILABLE
IN YOUR LUBRICATION DEPARTMENT**

This "immediate battery charging" service will augment the services now offered in your Lubrication Department and considerably increase your income in the department. A quick battery check often reveals a low battery that can be "brought up" while the car is being lubricated. Customers value this service since it prevents starting failures and saves time and money.



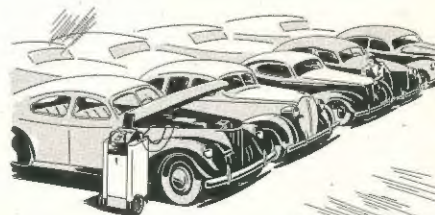
NEW BUSINESS AND INCREASED PROFIT ON THE SERVICE FLOOR

The Kent-Moore Fast Battery Charger enables you to render your customers an invaluable service quickly and conveniently. No time wasting job of removing the battery, installing a "loaner" and then replacing the battery when customer returns.



NO LOST SALES ON THE USED CAR LOT

The Kent-Moore Fast Battery Charger is built for use also on the Used Car Lot and is subject to exposure to weather. No used car sales need be lost because of battery failure and no time is lost in removing batteries for recharging, or in keeping a supply of replacement batteries on hand.



FAST! SAFE! SIMPLE!

PRICE

\$199.50

F. O. B. FACTORY

\$206.75

F.O.B. OAKLAND, CAL.

(Price Subject to Change
Without Notice)

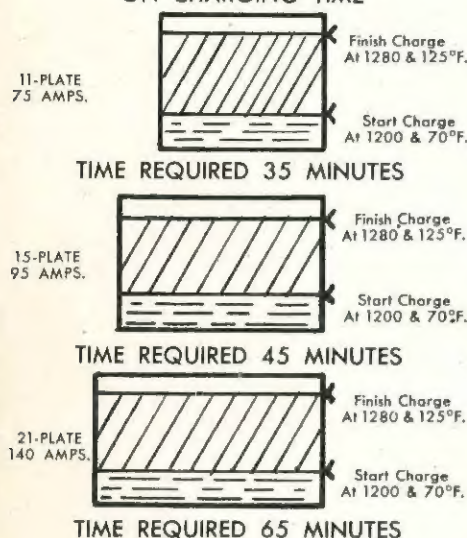
**THE MOST SENSATIONAL
EQUIPMENT OF THE YEAR
FROM EVERY VIEWPOINT**

THE Importance OF TEMPERATURE CONTROL

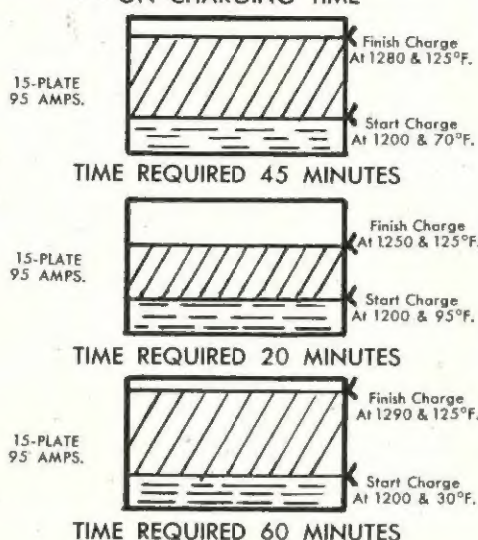
The Kent-Moore Thermostatic Temperature Control System automatically adjusts itself to the size, initial temperature, initial state of charge, and condition of the battery, eliminating all guessing, watching, or time clock resettings and danger to battery.

The importance of "Temperature Controlled" charging is best evidenced by the following example, which completely shows the difficulty in attempting to predict the length of time required to satisfactorily charge a battery by the time clock method, because of the many variables involved and which can easily result in a battery being seriously overheated or under charged.

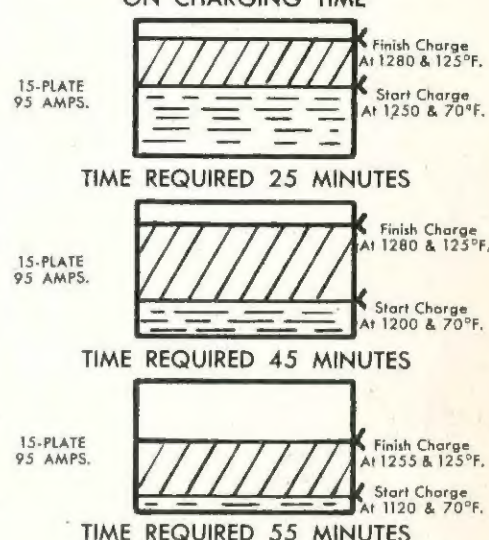
EFFECT OF BATTERY SIZE ON CHARGING TIME



EFFECT OF INITIAL TEMPERATURE ON CHARGING TIME



EFFECT OF INITIAL STATE OF CHARGE ON CHARGING TIME



CONCLUSION—Note that the larger A.P.H. capacity of the battery, the longer it takes to charge. This is because of its greater mass.

Time clock control, which does not take this into consideration, results in either overheating or under-charging the battery.

Kent-Moore Thermostatic Temperature Control automatically adjusts itself to the size of the battery.

CONCLUSION—Note how the initial temperature of the battery when put on quick charge affects the charging time required.

Time clock, which does not take this into consideration, exposes the dealer to either damaging the battery or insufficient charge.

Kent-Moore Thermostatic Temperature Control automatically adjusts itself to the initial temperature of the battery.

CONCLUSION—Note how initial state of charge (specific gravity) of the battery at start of quick charge affects charging time required.

This leads to additional confusion in time clock control unless overcome by charts, hydrometers, etc.

Kent-Moore Thermostatic Temperature Control System automatically adjusts itself to the initial state of charge of the battery.

GENERAL SPECIFICATIONS

RATING—Supplied in 60 cycle, 115 or 208/230 volts. 50 Cycle Units are available only when specifically required. Orders should specify both cycles and voltage required.

OUTPUT—60-100 amps. on a 3 cell 6 volt battery.

RECTIFIER—100 ampere copper oxide made by the oldest and largest manufacturer in the United States. Copper Oxide rectifiers are more efficient and have a far greater life than less expensive types.

COOLING FAN—Heavy duty circulating type fan for cooling rectifier. Totally enclosed, self lubricating motor—capacity 1400 feet of air per minute past the rectifier which is twice the minimum amount required by the rectifier manufacturer. This extra air keeps rectifier at very low operating temperature which guarantees indefinite life and minimum aging.

TRANSFORMER—Heavy duty, oversize, double wound (insulated charging circuit) provided with three taps for adjustment as rectifier ages. Adjustment required about once every 18 months.

CHARGING LEADS—No. 4, extra flexible rubber-covered charging leads 10 ft. long with separate volt-meter leads to insure accuracy on testing. These slide down under compartments of unit when not in use so that there are no bulky, unsightly leads to hang on hooks.

CHARGING CLIPS—Heavy Steel Baked Enamel Shuro Charging Clip with separate lead dipped bronze current and voltage contact jaws. (Capacity over 250 amperes.) Will grip everything from battery post to largest cable clamp. Handles insulated to avoid accidental grounding.

A.C. ATTACHMENT CORD—No. 14 Super Service Rubber-Covered Underwriter's Approved lead, 20 ft. long with unbreakable attachment plug. Cords wind on reel in back of unit—Only three turns required.

WHEELS—Two 8-inch semi-pneumatic rubber tired wheels, 1½" tread, are connected on axle, directly under transformer which makes unit easy to handle and when set down on two front feet it will not roll away.

CABINET—Substantial welded streamlined steel case finished in durable acid-resisting enamel (two coats). Internal parts easily accessible. If necessary, quick removal of full size front and back panels. Rubber well provided for thermostat when clips are returned to sockets after charging. Control panel is protected with steel cover against accidental damage and the elements.

THERMOSTAT—Shock, acid, and wear-proof, small size ¾" x 3", attached to our charging clip with 6" lead. Preset and guaranteed to within 3% accuracy. Made for us by one of the oldest and largest manufacturers of thermostats, and

thoroughly field and life tested through many years of use in other applications.

METER—4½" D'Arsonval Laboratory type moving coil volt meter, accuracy guaranteed within 2%. Has 120 amperes, 9-volt and Voltage Regulation Scales, with green, yellow and red color blocks, simplifying all operations.

GUARANTEE—One year against all defects in material and workmanship; defective parts to be returned to plant for our inspection, and if defective, will be made no-charge.

ADDITIONAL GUARANTEE ON RECTIFIERS—Four year additional guarantee on rectifier against failure due to defects in material and workmanship, available at \$4.00 net cost to dealer (must be registered within 60 days of date of sale to dealer). Rectifiers failing within this time under guarantee will be repaired or replaced upon return to factory. (Can be removed in 10 minutes with screw driver and replacement unit is slipped in its ventilation housing ready for instant installation.

NOTE: Properly used rectifiers will have an indefinite life. Failure is due to—(a) Abuse. (b) Corrosive fumes or wetting. (c) Manufacturing defects. Replacements will only be made under guarantee in case of (c).

Shipping Weight 200 lbs. net. Height 46 ½" overall. Width 23 ¼". Depth 20 ½".



KENT-MOORE

HINCKLEY-MYERS COMPANY, Jackson, Mich., A DIVISION

WEST COAST WAREHOUSE: 6647 FOOTHILL BLVD., OAKLAND, CALIFORNIA

ORGANIZATION INC.

GENERAL MOTORS RESEARCH BUILDING

DETROIT MICHIGAN